

AMENDMENT TO THE SPECIFICATION

Please amend the Abstract as set forth hereinbelow.

A resonant optical filter ~~including a~~ includes first and second transmission optical waveguides and a resonator, ~~which resonator may include resonator (including one or more resonator segments evanescently optically coupled resonator segments).~~ therebetween. The resonator supports ~~a~~ at least one circumferential resonant optical mode and is evanescently coupled to ~~each of the first and second transmission optical~~ the waveguides. ~~In a preferred embodiment, an~~ An optical signal entering the resonant optical filter through ~~the first transmission optical~~ a waveguide and substantially resonant with ~~an optical resonance~~ of the resonator is substantially transferred to the ~~second transmission optical~~ other waveguide, waveguide and leaves the resonant optical filter through ~~the second transmission optical waveguide,~~ while an optical signal entering the resonant optical filter through ~~the first transmission optical waveguide~~ and substantially non-resonant with ~~an optical resonance of the coupled optical resonator system~~ substantially the resonator remains in the ~~first transmission optical~~ same waveguide. waveguide and leaves the resonant optical filter through ~~the first transmission optical waveguide.~~ Where a resonator includes multiple resonator segments, the Multiple resonator segments of the preferred embodiments are ~~on the same optical~~ may be formed on a common resonator fiber and positioned sufficiently close together to enable optical ~~for enabling~~ coupling between them so as to provide them, resulting in a tailored frequency filter function. ~~function for optically coupling first and second transmission optical waveguides.~~ The resonators may be further provided with one or more include alignment structures structure(s) (flanges, grooves, etc) including flanges and/or grooves for enabling passive positioning and/or supporting first and second transmission optical waveguides including optical fibers and waveguides, such as optical fiber tapers. Structures may also be provided for suppressing undesired optical modes and/or resonances associated with the resonators and/or alignment structures on the optical resonator fiber.